



County FIPS and PlantID/NEDSID:

Reporting Year:\_\_\_\_\_

Facility Name: \_\_\_\_\_

**Default Emission Factors for Calculating Hazardous Air Pollutants from Combustion of Distillate Fuel Oil**

The Maine Dept. of Environmental Protection has determined that facilities firing distillate fuel oil release the hazardous air pollutants (HAPs) on this form. In the absence of facility- or SCC-specific emission estimates for these pollutants from your facility's stationary units firing distillate fuel, the Maine DEP intends to apply the default emission factors on this form to your facility's annual distillate fuel throughput to calculate HAP emissions.

If, in your professional opinion, you believe alternative HAP emission factors are more appropriate, supply them in the columns provided in the table below or add the HAP entry to the appropriate process unit(s) in Satellite i-STEPS, using Emission Estimation Method code 9 (i-STEPS calculated/Local Factor). If you have differing emission factors based on different SCCs and process units burning distillate fuel, please make the appropriate Satellite i-STEPS entries or provide those factors on multiple forms. These factors will apply to all SCC units firing distillate fuel oil, unless noted here ☐. SCC(s) to which these emission factors ONLY apply:

POLLUTANT CODE	POLLUTANT	DEFAULT FACTOR	FACTOR UNIT	ALTERNATIVE EMISSION FACTOR	REFERENCE SOURCE OF EMISSION FACTOR
106990	1,3-Butadiene	5.474E-03	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
107028	Acrolein (Internal Combustion Engines)	1.295E-02	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
107028	Acrolein (External Combustion Boilers)	1.389E-03	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
7664417	Ammonia (SCR Controlled Emissions)	1.400E+00	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
7664417	Ammonia (Uncontrolled Emissions)	8.000E-01	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
7440382	Arsenic	5.600E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
71432	Benzene	1.306E-01	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
7440417	Beryllium	4.200E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
7440439	Cadmium	4.200E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		

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7440508	Copper	8.400E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
67562394	1,2,3,4,6,7,8-Heptachlorodibenzofuran	3.500E-09	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
35822469	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.500E-08	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
39227286	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	6.900E-10	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
19408743	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	7.600E-10	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
100414	Ethylbenzene	3.070E-03	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
50000	Formaldehyde	4.800E-02	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
7440473	Chromium	4.200E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
18540299	Chromium (VI)	7.560E-05	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
7439921	Lead	1.260E-03	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
7439965	Manganese	8.400E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
7439976	Mercury	4.200E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
7440020	Nickel	4.200E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
83329	Acenaphthene	1.988E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
208968	Acenaphthylene	7.084E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
75070	Acetaldehyde (Internal Combustion Engines)	1.074E-01	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
75070	Acetaldehyde (External Combustion Boilers)	2.842E-03	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		

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120127	Anthracene	2.618E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
56553	Benzo (a) anthracene	2.352E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
50328	Benzo (a) pyrene	2.632E-05	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
205992	Benzo (b) fluoranthene	1.387E-05	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
191242	Benzo (g,h,i) perylene	6.846E-05	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
207089	Benzo (k) fluoranthene	2.170E-05	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
218019	Chrysene	4.942E-05	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
53703	Dibenzo(a,h) anthracene	8.162E-05	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
206440	Fluoranthene	1.065E-03	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
86737	Fluorene	4.088E-03	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
193395	Indeno(1,2,3-cd)pyrene	5.250E-05	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
91203	Naphthalene	1.187E-02	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
85018	Phenanthrene	4.116E-03	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
129000	Pyrene	6.692E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
7782492	Selenium	2.100E-03	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
108883	Toluene	5.726E-02	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		
1330207	Isomers of xylene	3.990E-02	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		

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7440666	Zinc	5.600E-04	Lb per 1000 Gallons of Distillate Oil (No. 1 & 2) Burned		

I acknowledge that the above emission factors will be used to calculate emissions of hazardous air pollutants at my facility and that the emission totals will be returned to me for my inspection prior to my signing a statement which certifies emissions for the 2005 Annual Air Emissions Inventory.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Title: \_\_\_\_\_

Telephone: \_\_\_\_\_